Name:

at1113exam: Expand, factor, and solve quadratics (v319)

1. Solve the equation.

$$(5x + 8)(4x - 7) \;=\; 0$$

2. Expand the following expression into standard form.

$$(7x + 9)(7x - 9)$$

3. Expand the following expression into standard form.

$$(5x + 7)^2$$

4. Expand the following expression into standard form.

$$(4x + 9)(3x + 2)$$

5. Factor the expression.

$$49x^2 - 36$$

6. Solve the equation with factoring by grouping.

$$18x^2 + 15x + 12x + 10 \;=\; 0$$

7. Factor the expression.

$$x^2 - 9x + 18$$

8. Solve the equation.

$$9x^2 - 11x - 31 \;=\; 4x^2 + 2x - 3$$